

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered). Please AMEND claim 1, and ADD new claim 25 in accordance with the following:

1. (currently amended) A method of providing antibacterial activity to a non-fibrous surface of a body using nano-sized metal particles, comprising:
 - coating a volatile photocatalytically active semiconductor-free solution dispersed with nano-sized metal particles onto the non-fibrous surface of the body;
 - drying the coated body; and
 - thermally treating the coated body wherein the nano-sized metal particles are deposited onto the body,wherein the thermal treatment operation is performed at 50-150°C to prevent deformation of the body, and
wherein the metal particles are selected from the group consisting of silver (Ag), aluminum (Al), copper (Cu), iron (Fe), zinc (Zn), cadmium (Cd), palladium (Pd), rhodium (Rh) and chrome (Cr).
2. (cancelled)
3. (cancelled)
4. (previously presented) The method according to claim 1, wherein the thermal treatment operation is performed at 150°C to prevent deformation of the body.
5. (previously presented) The method according to claim 1, wherein the nano-sized metal particles used in the coating operation are used in an amount of 100-2000 ppm, based on the volatile solution.
6. (original) The method according to claim 5, wherein the nano-sized metal particles used in the coating operation are used in the amount of 1000 ppm, based on the volatile solution.

7. (original) The method according to claim 5, wherein the nano-sized metal particles have a sterilizing function.

8. (cancelled)

9. (original) The method according to claim 7, wherein the body is a home appliance selected from among refrigerators, washing machines, and air conditioners.

10. (original) The method according to claim 7, wherein the body is a filter for air cleaners.

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (cancelled)

18. (cancelled)

19. (original) The method according to claim 1, wherein the nano-sized metal particles have an average particle size of 500 nm or smaller.

20. (original) The method according to claim 19, wherein the nano-sized metal particles have an average particle size of 300 nm or smaller.

21. (original) The method according to claim 19, wherein the nano-sized metal particles have an average particle size of 3-250 nm.

22. (original) The method according to claim 1, wherein the coating of the volatile solution with nano-sized metal particles onto the surface of the body comprises deposition.

23. (previously presented) The method according to claim 22, wherein the deposition includes an ion-adsorption reduction method, in which only silver is selectively attached onto the body by use of electrolysis of silver solution.

24. (cancelled)

25. (new) A method of providing antibacterial activity to a non-fibrous surface of a filter using nano-sized metal particles, comprising:

coating, onto the non-fibrous surface of the filter, a volatile photocatalytically active semiconductor-free solution dispersed with nano-sized metal particles selected from the group consisting of silver (Ag), aluminum (Al), copper (Cu), iron (Fe), zinc (Zn), cadmium (Cd), palladium (Pd), rhodium (Rh) and chrome (Cr); and

heating the filter at 50-150°C to obtain a deposit of nano-sized metal particles on the filter.